

[DOCUMENT NAME]

ABSTRACT

[SUMMARY]

[OBJECT] The present invention is to provide a connector that can efficiently transmit high-voltage (for example, 10 kV), large-current (for instance, 100 kA or more) 5 current pulses with a narrow pulse width (e.g., 30  $\mu$  sec or less) and can be easily disconnected.

[MEANS FOR SOLVING THE SUBJECTS] The major components are a primary winding 12 connected to a high-voltage, a large-current power supply 1, a secondary winding 14 connected to an electromagnetic forming coil 2, and a magnetic core 16 for 10 guiding the magnetic flux produced by the primary winding. The magnetic core 16 is composed of a primary core 16a on which the primary winding is wound and a secondary core 16b on which the secondary winding is wound. The primary core and the secondary core are magnetically connected together by putting them in contact or in close proximity. And the primary core and the secondary core are separated each other 15 when the connector is disconnected.

[SELECTED DRAWINGS] Fig.3